

**To:** Ben Hammond[hammondbh@cdmsmith.com]; Frank Tsang[TsangC@cdmsmith.com]; Hoppe, Michael[Hoppe.Michael@epa.gov]; LaPoma, Jennifer[LaPoma.Jennifer@epa.gov]  
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**From:** John Rolfe  
**Sent:** Fri 5/9/2014 5:21:15 PM  
**Subject:** Re: Fw: RM 10.9 habitat layer

Mike:

Thank you for your e-mail related to the placement of the habitat layer. I will forward your recommendations to CH2M Hill so they can instruct GLDD about EPA's recommendation to apply two lifts of sand for the habitat layer.

Please feel free to contact me if you wish to discuss this matter in further detail.

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>>> "Hoppe, Michael" <Hoppe.Michael@epa.gov> 5/9/2014 1:04 PM >>>

Based on a discussion with Ben and review of the photos, two lifts would be the appropriate course of action for the coverage of the armor stone. With additional tide cycles, one lift would likely drop lower to expose too much armor stone.

Please let me know if you have concerns.

Mike

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From: Hammond, Benjamin H. <hammondbh@cdmsmith.com>  
Sent: Friday, May 9, 2014 10:13:58 AM  
To: Hoppe, Michael  
Subject: RM 10.9 habitat layer

Good morning Mike,

Please find attached a few pictures documenting the results of initial habitat layer placement yesterday. The picture with the geese in the background shows the results of two lifts of sand placed over type B stone. The rest show areas where only one lift was applied.

My first impression is that two lifts should be applied, as one lift seems to leave too much exposed armor stone. I do understand, though, that it is unrealistic to expect all the stone to be covered.

I'll call shortly to confirm receipt and to discuss.

Thanks  
Ben